Stack Overflow 2019 Developer Survey

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OUTLINE

- Executive Summary

- Introduction

- Methodology

- Results
  - Visualization – Charts
  - Dashboard

- Discussion
  - Findings & Implications

- Conclusion

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EXECUTIVE SUMMARY

- Data Analysis Goals

- Description of Methodology
  - Data collection and wrangling
  - Analysis
  - Visualizations

- Results are displayed by plots and graphs

- Discussion of overall findings and implications are supported

- Final conclusions

INTRODUCTION

- The Developer Survey by Stack Overflow represents developers, analysts, IT leaders, and reporters in an ever changing tech world.

- Each year they are a source for the community to stay up-to-date on the latest technologies, evolving developer experience, and try to understand where tech might be going next.

METHODOLOGY

- Collect survey data and explore content
  - Web Sraping
  - APIs
- Data Wrangling
- Exploratory Data Anaysis
  - Analyzing data distibution
  - Handling outliers
  - Finding correlations
- Data Visualization
  - Highlight data distribution, relationships, the composition and comparison of data
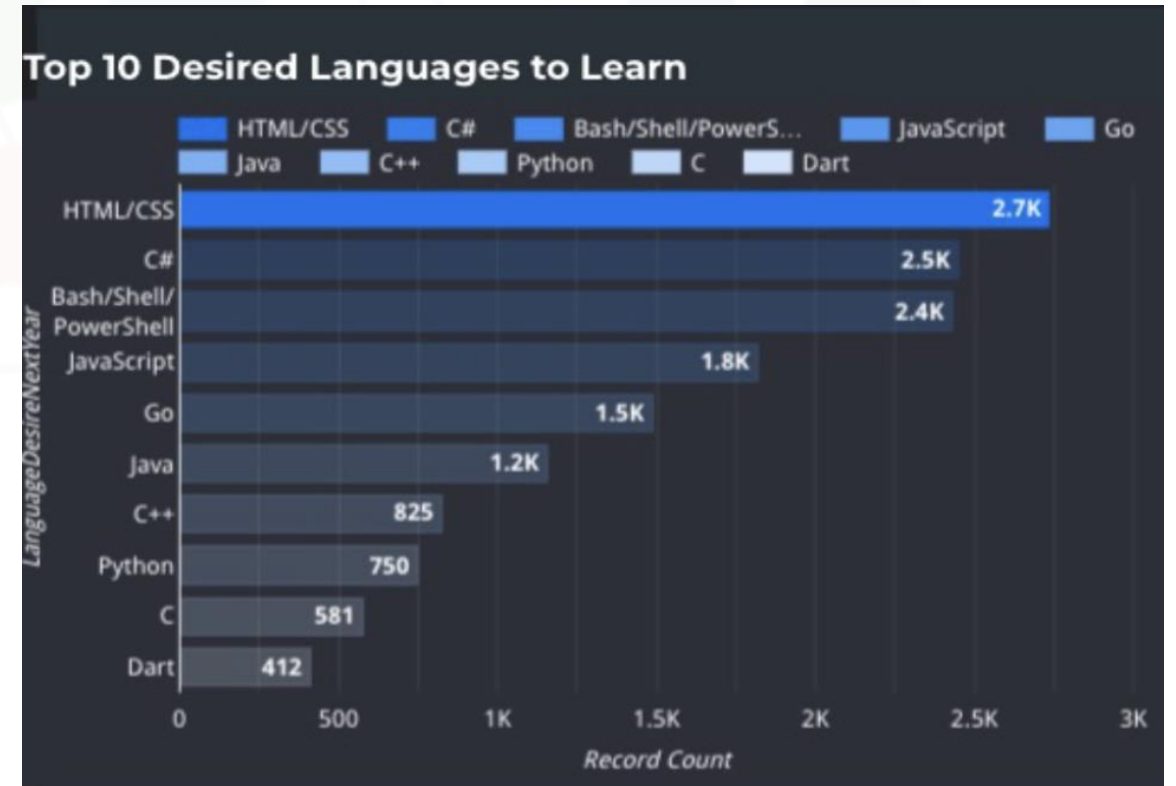 - Create interactive dashboards to display key results

RESULTS

PROGRAMMING LANGUAGE TRENDS

Current Year

Next Year

PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- HTML/CSS are reported as top desired languages to work with an learn.

- Popularity of languages seems to positively correlate between current and future study.
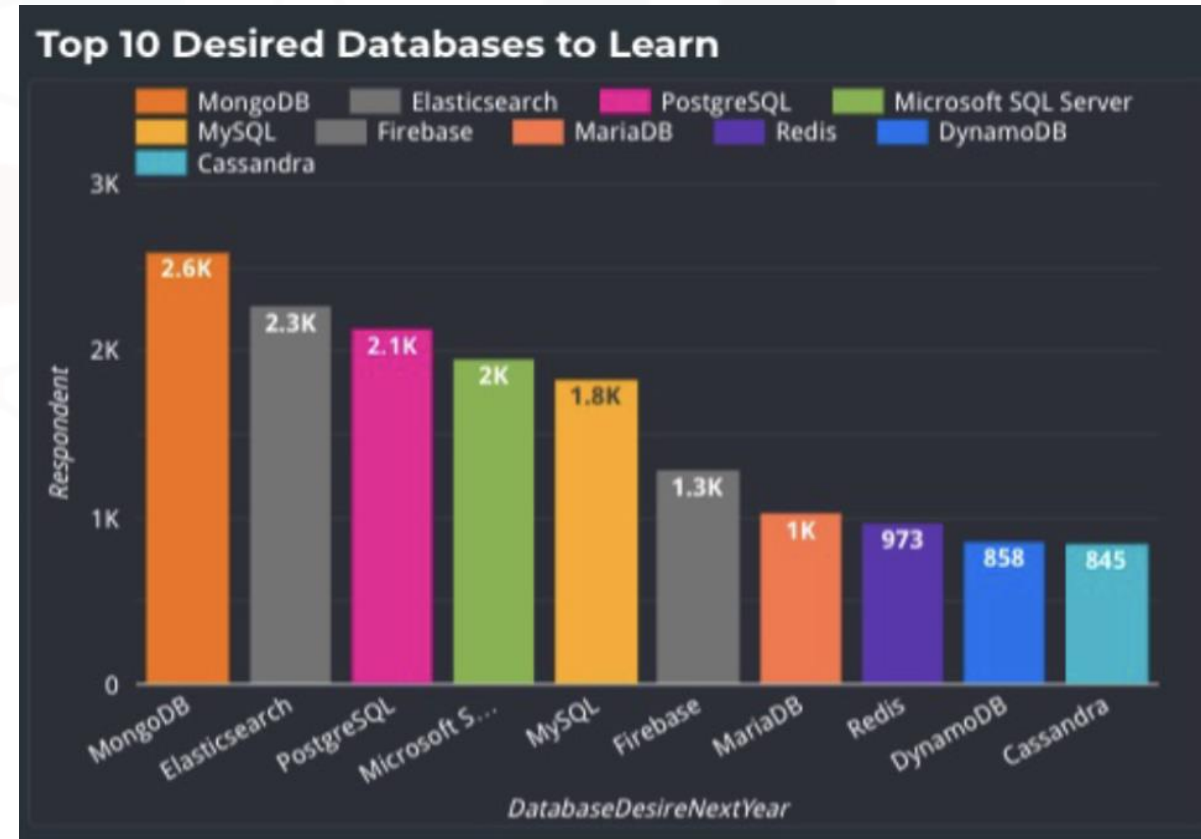
Implications

- Employers will most likely be looking for programmers with experience in HTML/CSS.

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DATABASE TRENDS

Current Year

Next Year

DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL was the most common database reported by users
- MongoDB was the most highly desired database to learn in the coming year.
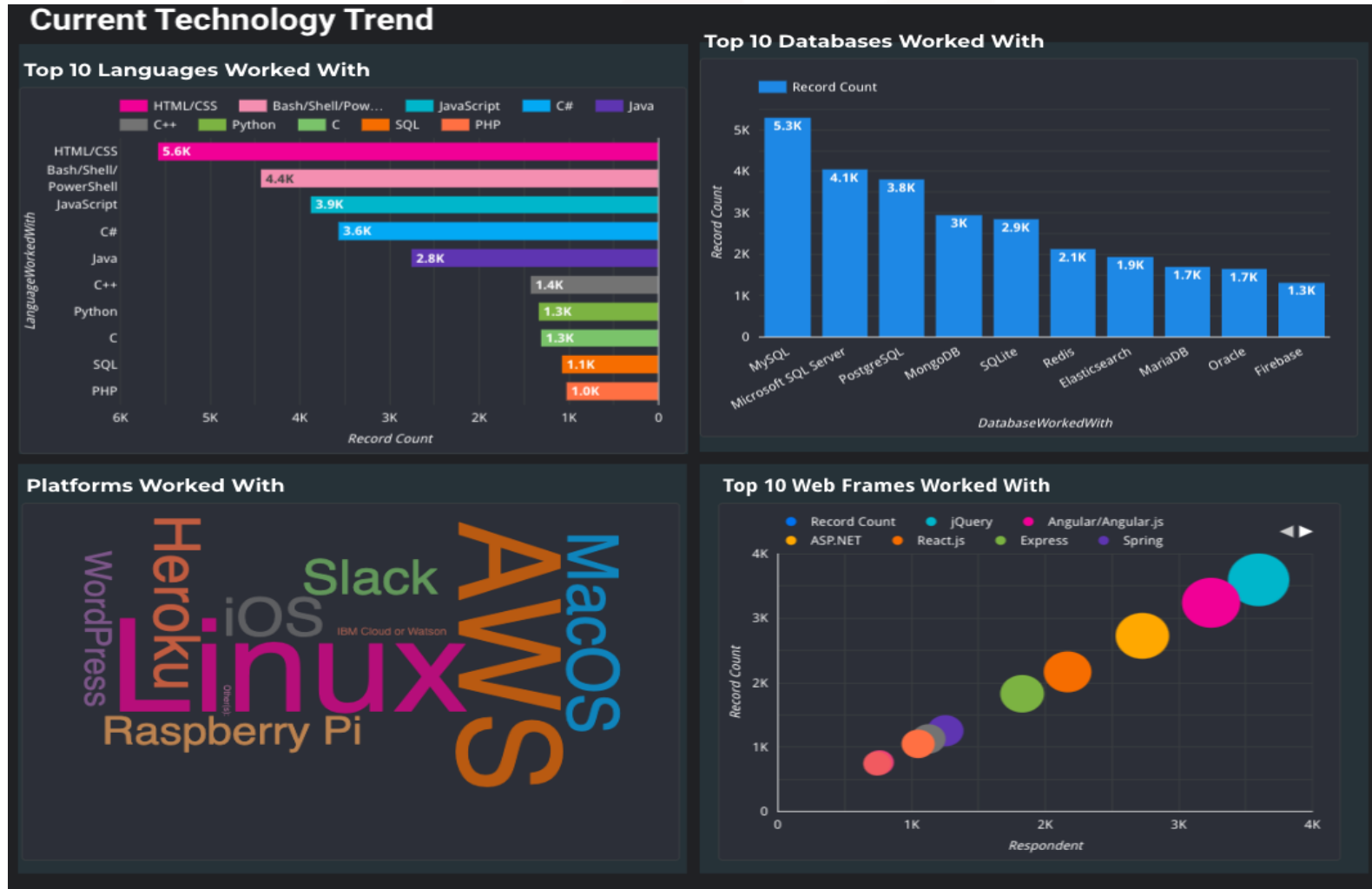
Implications

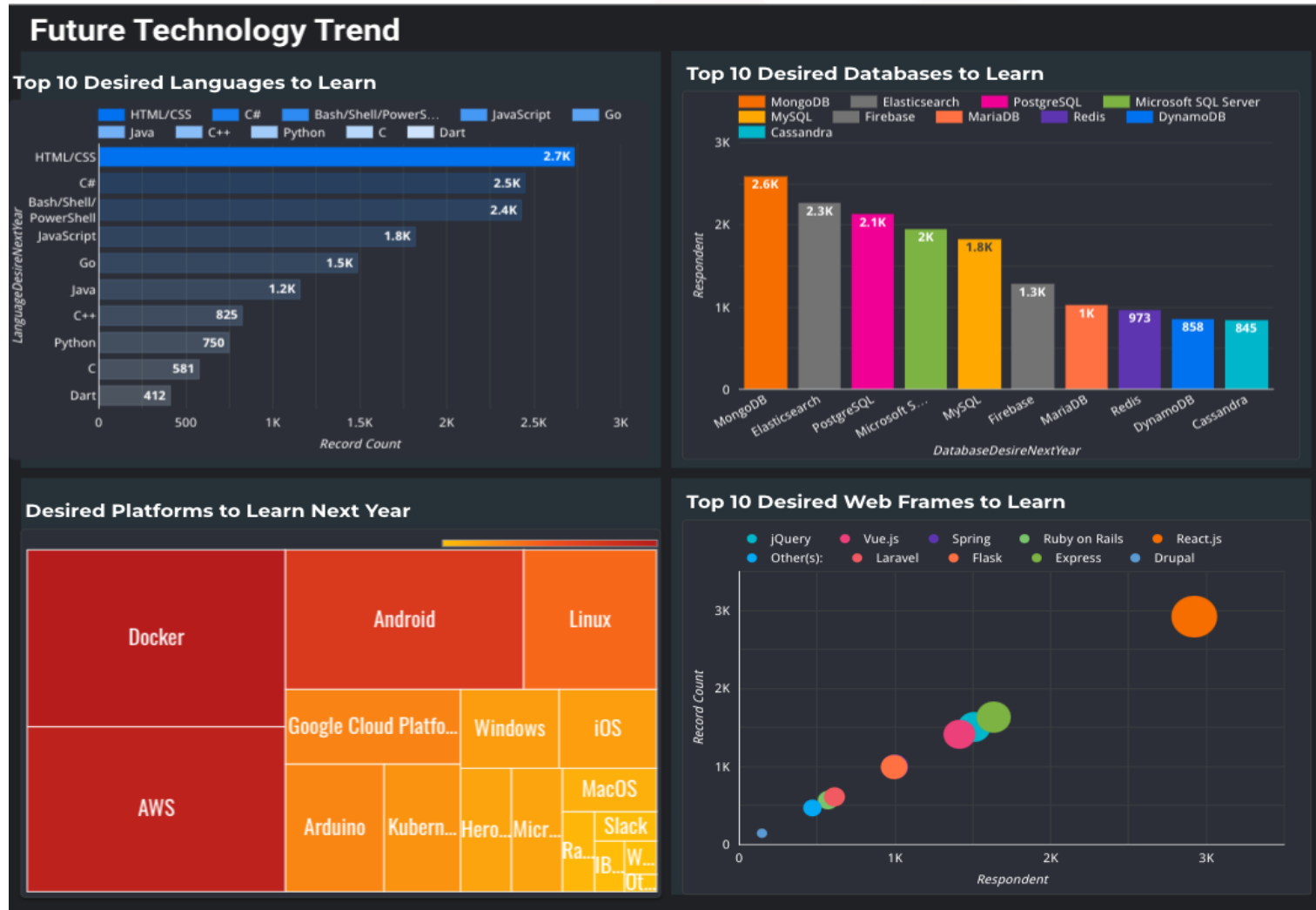- Future employers may be looking for MongoDB if it is emerging in the field.

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DASHBOARD

<https://github.com/lmmclane/Capstone-IBM-Data-Analyst/blob/3d36c32520a52281d9ef58b6fdd05da9b92203
9a/Capstone%20Dashboard.pdf>
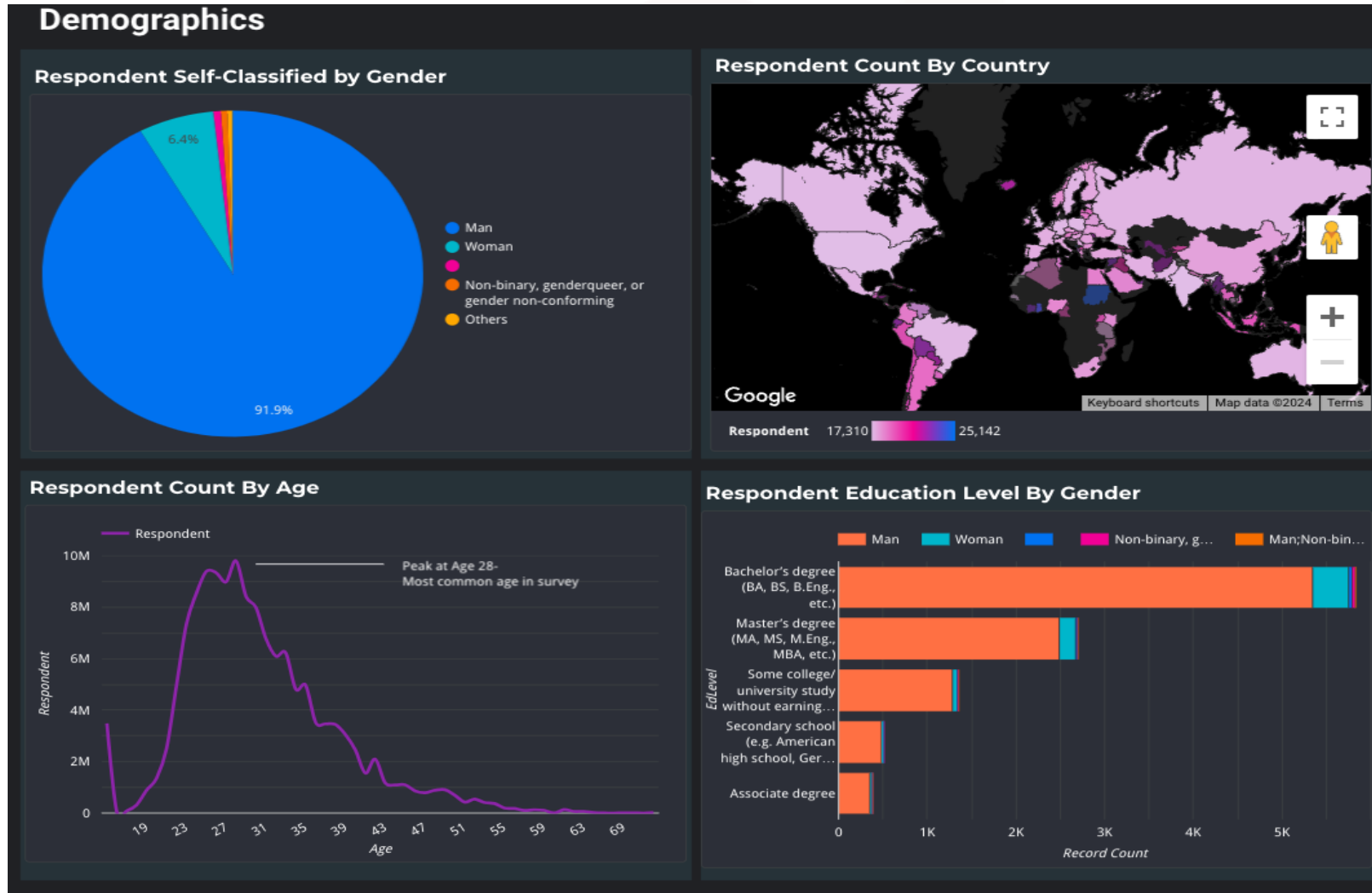
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DASHBOARD TAB 1

DASHBOARD TAB 2

DASHBOARD TAB 3

OVERALL FINDINGS & IMPLICATIONS

Findings

- HTML/CSS is the most used language currently used and desired

- Decker is the most desired platform to learn next year

- Respondents were overwhelmingly male in their late 20's

Implications

- Trends seem to be mostly stable from last year, indicating job security.

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APPENDIX

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